

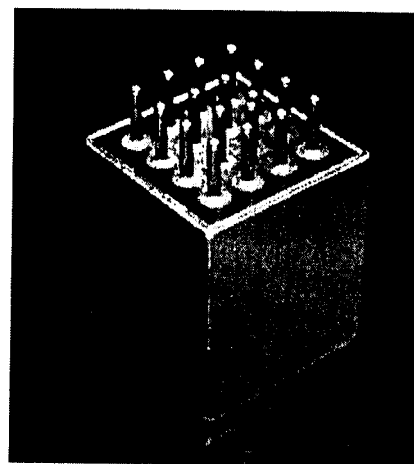
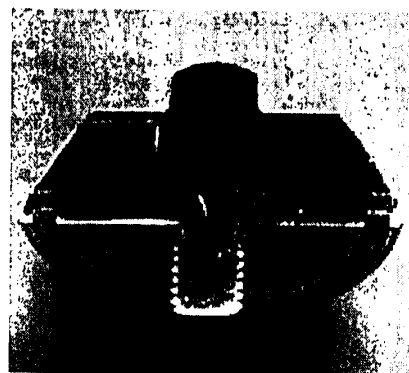
JUN 04 2002

Electron Beam Welding Application.

The electron beam welding technique is highly suitable for production of components requiring great strength and high precision but generally the setting up costs will entail that the profitability is best for medium-sized and large series.

The small heat spread makes this technique particularly suitable for electronic parts required to be dust and moisture proof, something achieved by hermetic sealing. Also, this technique is suitable for welding of very thin materials such as bellows and diaphragms. As pictured on the right, you may weld very close to soldering and other temperature sensitive areas.

One classical example of a brilliant application of EB welding is production of arrow toothed gears that are rather costly to make when applying conventional technology. If EB welding is made, the arrow tothing is made by welding two opposite bevel-cut gear wheels, and then making the final grinding.



A new technology should call for revaluation of production methods for it opens a potential of more rational production of complicated components with high tolerance requirements - this also goes for the EB technology.

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JUN 11 2002

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